



**U.S. ARMY MEDICAL RESEARCH & MATERIEL COMMAND**



# **Telemedicine and Advanced Technology Research Center**

**Colonel Karl Friedl,**  
*Director, Telemedicine & Advanced Technology  
Research Center (TATRC)*

**Major L. Story,**  
*Deputy for Research Support*

**Directing People, Activist Management, Problem Solving**





# Agenda

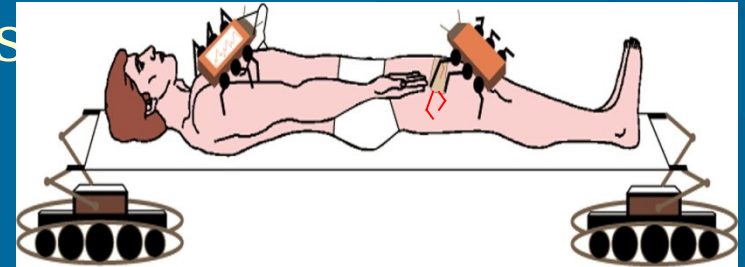
## - TATRC Overview

- Partnership/collaborations
- Key Research Portfolio's
- Funding



## - Congressional management process

- Requirements
- Proposal preparation
- Post award tools





# Telemedicine & Advanced Technology Research Center

## Mission

**Explore science and engineering technologies ahead of programmed research, leveraging other programs to maximize benefits to military medicine**



## Vision

**Be the government model of opportunity-driven research agility**

- Technology scouts
- Transition research innovation to programs of record





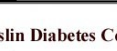
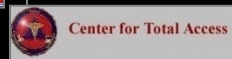
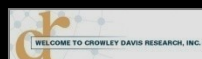
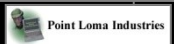


# TATRC Approach

- Actively build capabilities and partnerships
  - Seek out and physically introduce partners
  - Actively assist those new to biomedical research (e.g., human/lab animal use; proposal preparation; connect to military priorities)
  - Provide modest resourcing to facilitate teaming (\$200K “sweet spot” for partnerships)
  - Maintain agility, funding important ideas and teams now and adjusting with emerging findings
- Technical review is most critical after the work is underway, with frequent contact, in process reviews, peer review site visits, & midcourse adjustments
- Seek spin-off benefits such as promoting STEM careers and interest in working on military medical problems

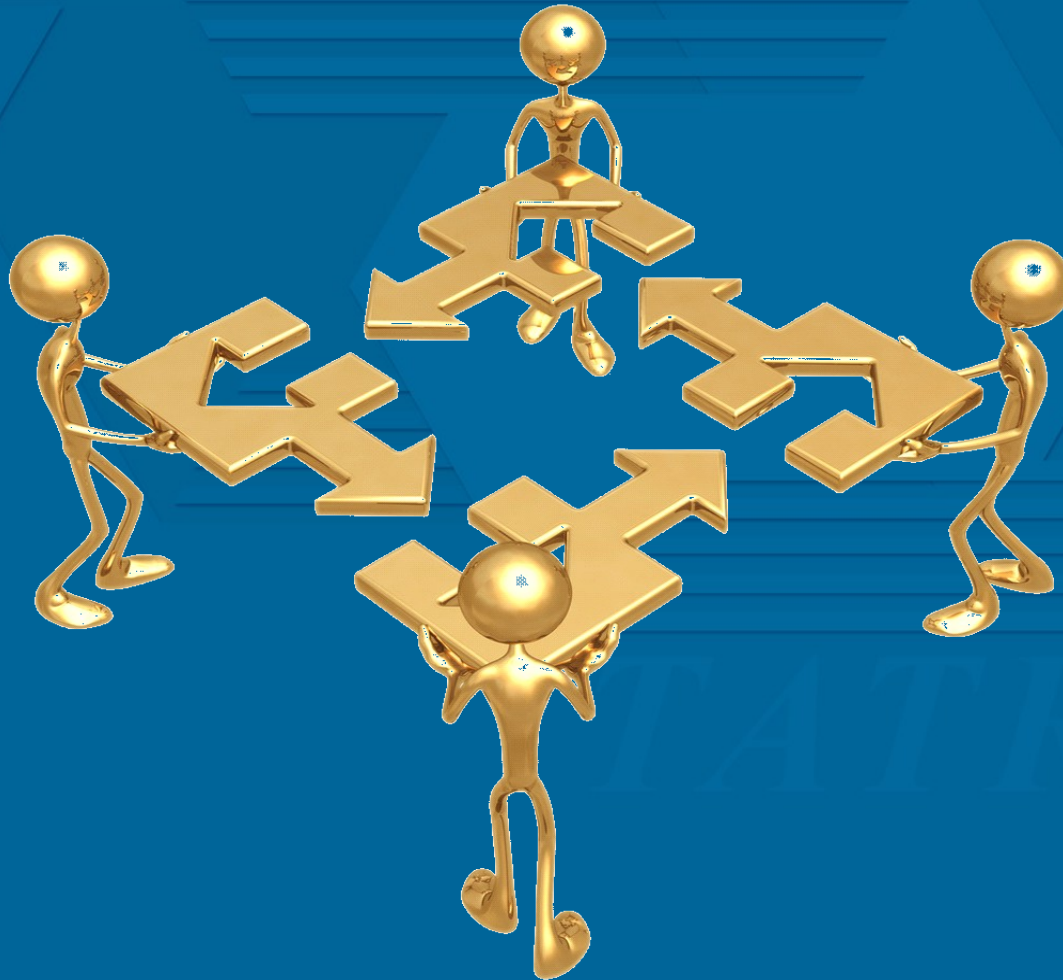


**TATRC is a network of public-private partnerships working together to improve military-civilian health**





# TATRC - Making the Right Connections







**Senior  
Consultants  
Senior Scientist**

**TATRC Director**

**Deputy Director** **Chief of Staff**

**Current Staff**

**4 Military officers**  
**5 Civilians**  
**62 IPAs (incl. 17 part time)**  
**85 Contractors**  
**3 Consultants**

**Field Offices**

<b>TATRC-HUI</b>	<b>Hawaii</b>
<b>TATRC-South</b>	<b>Ft. Gordon</b>
<b>TATRC-West</b>	<b>Los Angeles</b>
<b>TATRC - Northwest</b>	<b>Madigan AMC,</b>
<b>Washington</b>	
<b>Europe liaison</b>	<b>D. Lam (Univ of</b>
<b>Maryland)</b>	

**External Subject Matter Experts**

<b>J. Shore, U of Colorado</b>	<b>K. Montgomery, Stanford</b>
<b>W. Grundfest, UCLA</b>	<b>Univ</b>
<b>S. Cafey, USC</b>	<b>A. Reisner, Mass Gen Hosp</b>
<b>E. Krupinski, Univ of Arizona</b>	<b>T. Knuth, Henry Ford</b>
<b>D. Fridsma, Univ of Arizona</b>	<b>Hospital</b>
	<b>F. McVeigh Geneva</b>
	<b>Foundation</b>
	<b>A. Vo - Univ of Texas</b>

**Assistant Director  
for  
Research Programs  
Chief Scientist**

**Assistant Director  
for Administration**

**Research  
Portfolios**

**Research  
Review  
Division**

**Proposal Review  
Board**

**AMEDD Adv Med  
Tech Initiative**

**External Review  
Coordination**

**Research  
Support**

**Project Officers**

**RAD 1, 2, 3,4,  
Project coordination**

**Congressional Inquires &  
Constituent interface**

**Product Line Reviews**

**Technology  
Transfer &  
Transition**

**Resources  
Management**

**Information  
Technology**

**Communications  
& External Affairs**

**Logistics**

**Security, Plans,  
Operations &  
Training**



# Research Portfolios

**RAD I: Infectious Disease**  
**RAD II: Combat Casualty Care**  
**RAD III: Military Operational Medicine**  
**RAD IV: Clinical Rehab Medicine**

## Key Product Lines

## Current Staff

**4 Military Officers**  
**8 Civilians**  
**54 IPAs (includes 10 part time)**  
**88 Contractors**  
**5 Consultants**

**Medical Robotics**  
**Dr. Gary Gilbert**

**Health Information Technologies**  
**Mr. Dave Schroeder**

**Medical Imaging Technologies**  
**Dr. Anthony Pacifico**

**Advanced Prosthetics and Human Performance**  
**Mr. Troy Turner**

**Computational Biology**  
**Dr. Jacques Reifman**  
**BHSAI BIC**

**Biomonitoring Technologies**  
**Dr. Eva Lai**

**Medical Modeling Simulation and Training Technology**  
**Dr. Kevin Kunkler**

**Acoustic Trauma**  
**Dr. Michael Holtel**

**Blood Products and Safety**  
**Mr Wilbur Malloy**

**Regenerative Medicine**  
**Dr. Eva Lai**

**Medicine and Biomaterials**  
**Dr. Warren**

**Trauma**  
**Dr Thomas Knuth**

**Medical Logistics**  
**Mr. John DePasquale**

**International Health**  
**Ms Cynthia Barrigan**

**Infectious Disease**  
**Dr John Carney**

**Integrative Medicine**  
**Dr Jean-Louis Belard**

**Neurotrauma**  
**Dr Evgene Golanov**

**Resilience and Retraining**  
**Ms Ashley Fisher**

**Psychological Health**  
**Dr. Jay Shore**

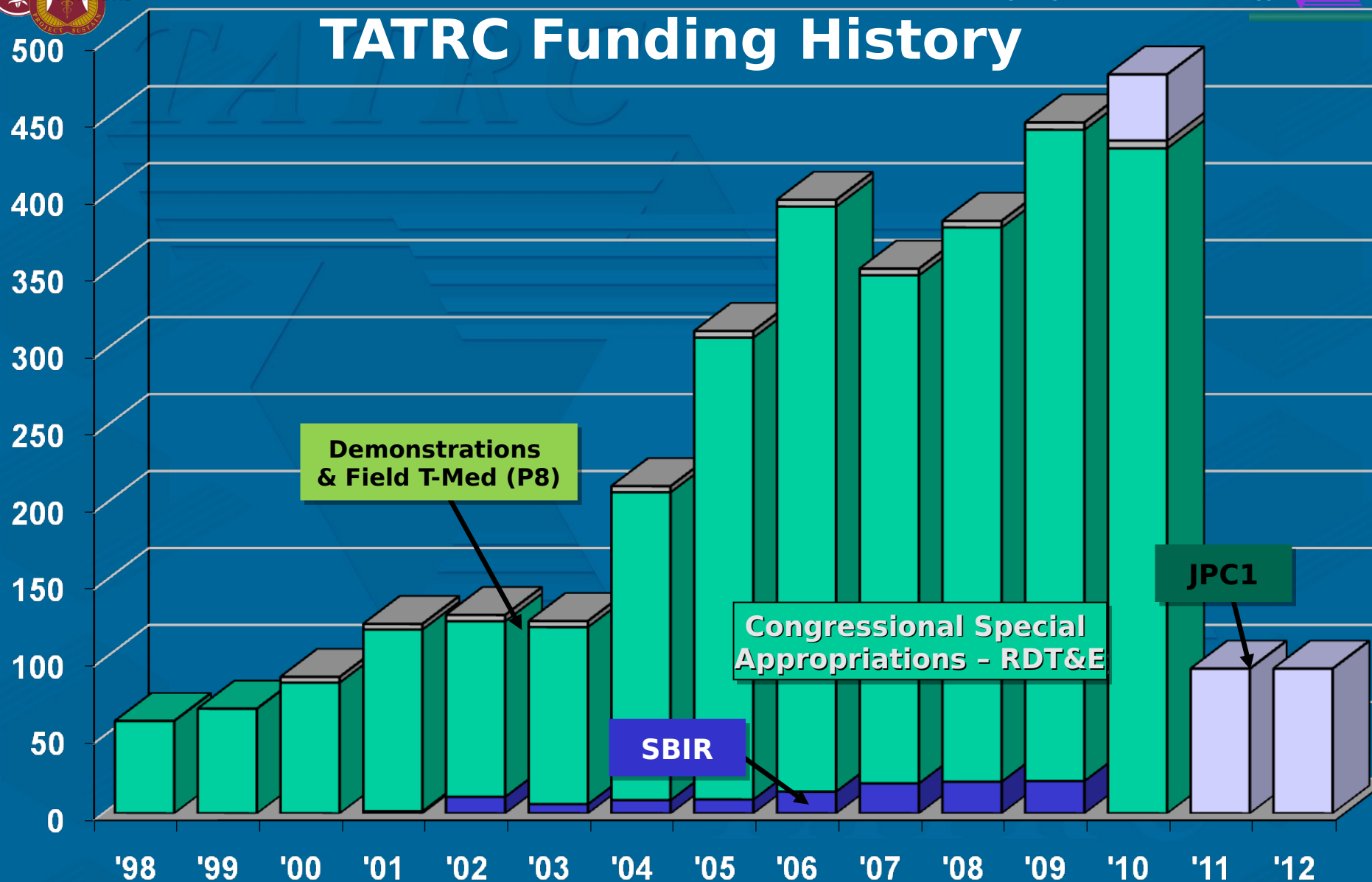
**Genomics/Proteomics**  
**Dr Paul Nisson**

**Vision**  
**Mr. Robert Read**





# TATRC Funding History



Key Sources: CSI, AAMTI(P8), SBIR/STTR, Reimb./OPM



# 21 TATRC Portfolios

## Joint Technical Coordinating Group

### Medical Information & Training Technologies

Chemical - not managed by TATRC

Biological - not managed by TATRC

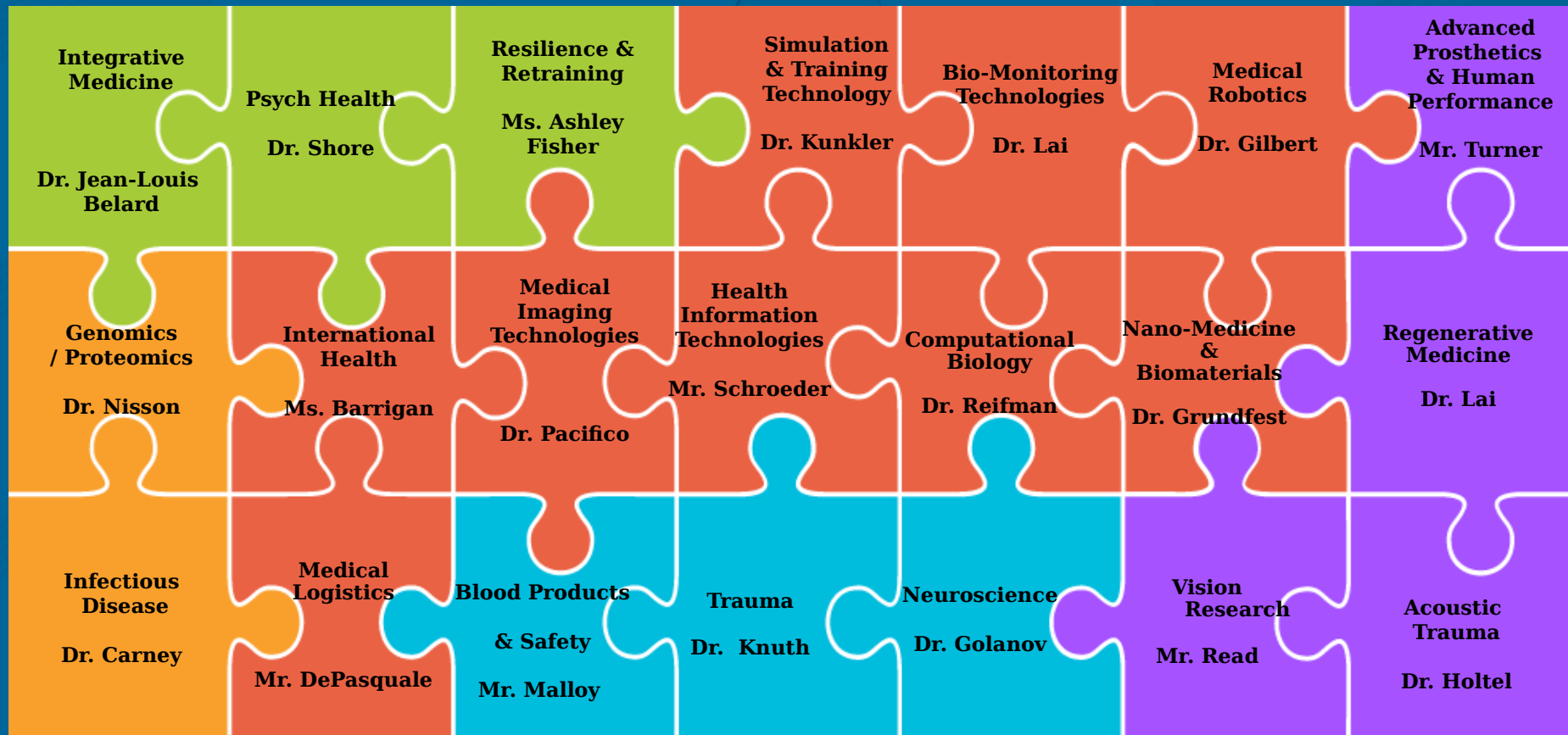
### Infectious Diseases

### 5. Military Operational Medicine

### 6. Combat Casualty Care

7. Radiation - not managed by TATRC

### 8. Clinical & Rehabilitative Medicine





# General Requirements for Research Awards

- Proposals for R&D funds must be submitted through the **USAMRMC Broad Agency Announcement (BAA) 11-1**, which:
  - Solicits proposals on a rolling basis, with no deadlines
  - Describes research areas of interest to MRMC, including advanced medical technologies, combat casualty care, operational medicine, and infectious disease
  - Proposal review and approval process
- An independent process exists for the review and approval of research protocols (i.e., IRB, IACUC, etc.)



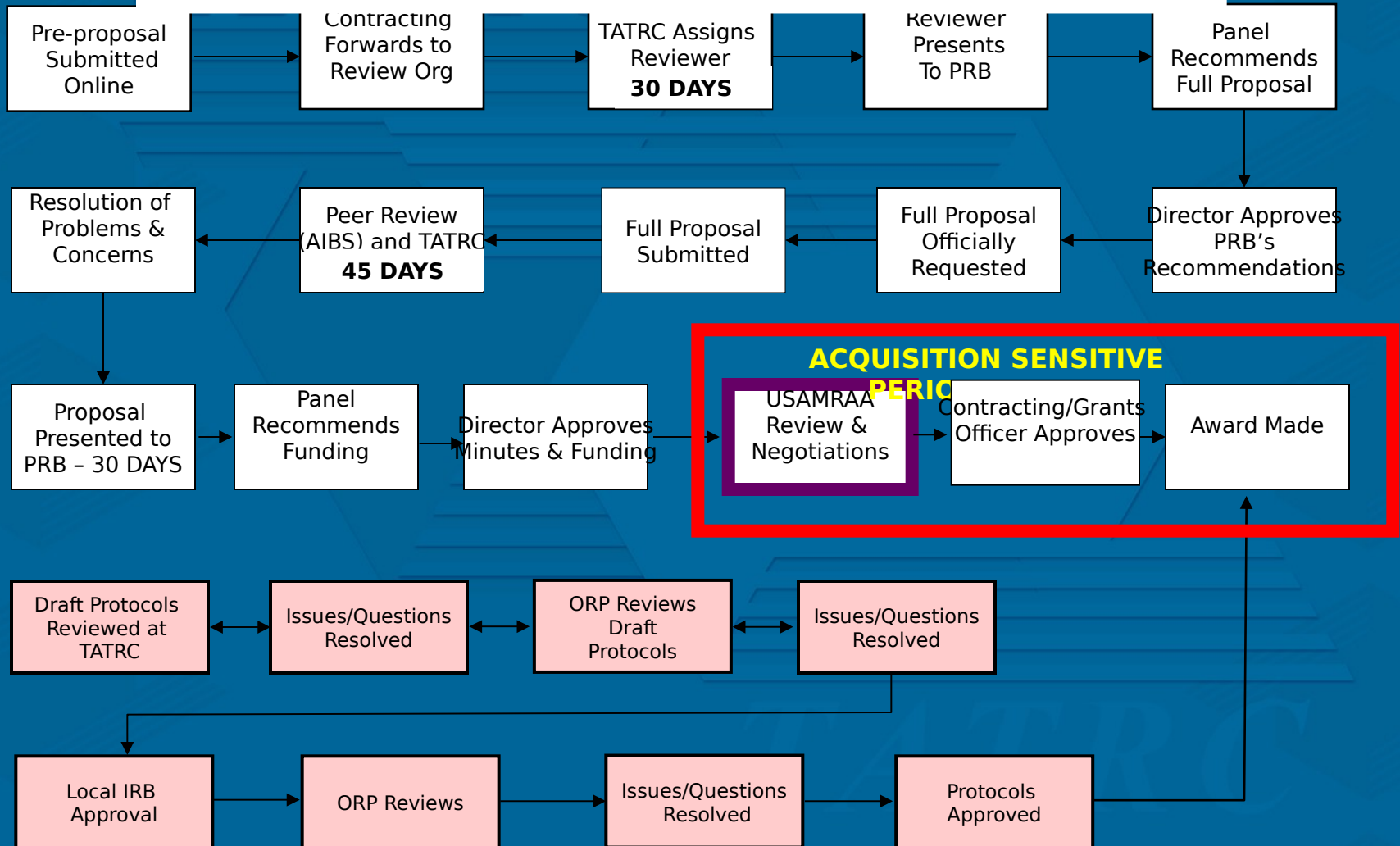


# The Basics: Required Documents

- Pre-proposal: # 5 pages, minimal detail in narrative and in budget (character count)
  - Submit online in accordance with BAA 11-1 instructions (<http://www.usamraa.army.mil>)
    - Problem to be studied
    - **Hypothesis/Deliverable(s)/Research plan**
      - Failure to articulate this information can result in a declination from the proposal review board
    - Significance and/or uniqueness of the proposed effort
    - Military relevance
    - Duration of the project
    - Animal/human use
    - Curriculum vitae/ publications
  - **Tell us when you have submitted your pre-proposal!**  
This is ESSENTIAL for ensuring that it is routed properly for review.



## PROPOSAL & PROTOCOL PROCESSES - R&D FUNDS





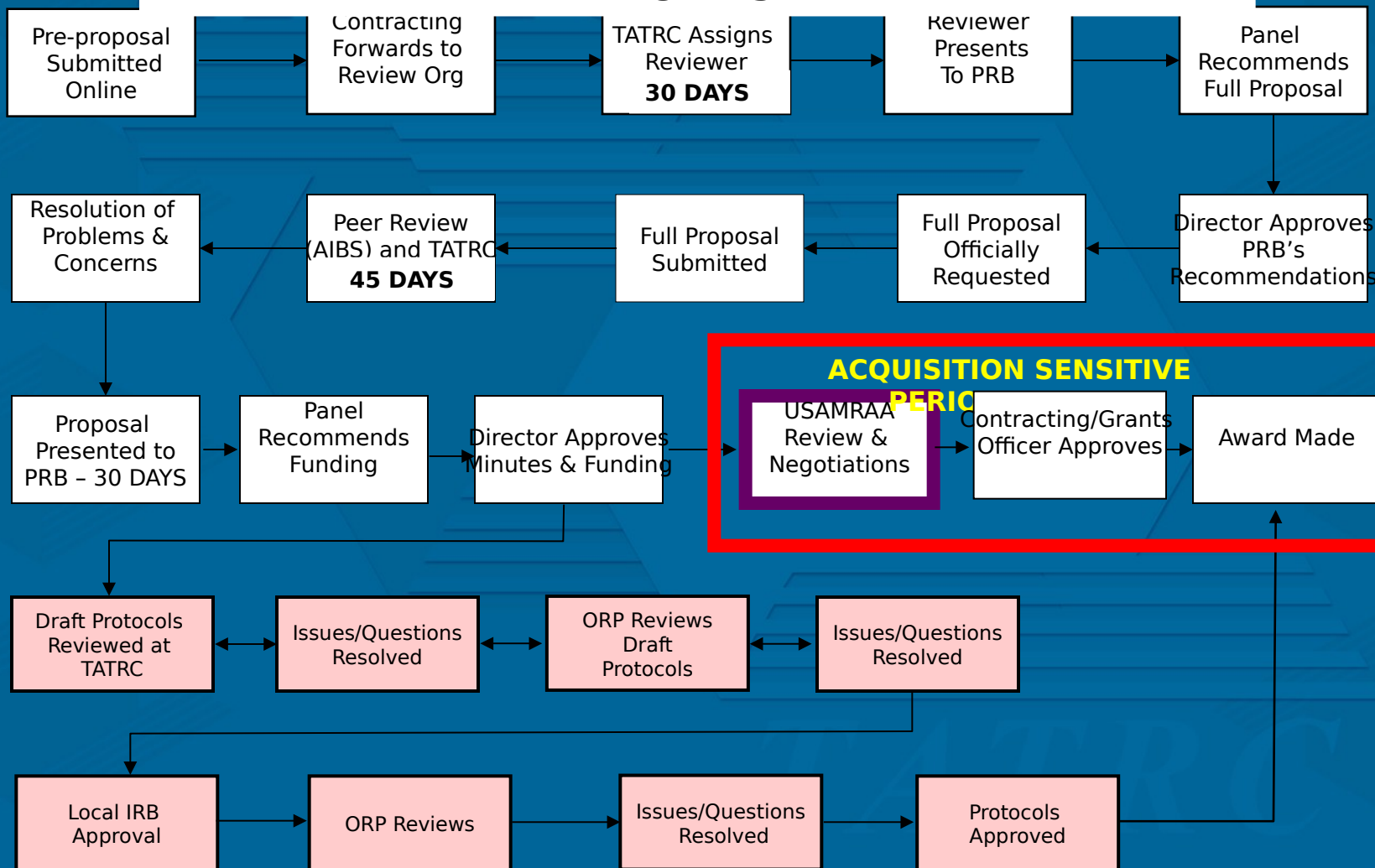
# Essential Elements of a Full Proposal

- Full proposal: lengthy and detailed with full budget
  - Submit using [grants.gov](https://grants.gov) site, per BAA 11-1 instructions (URL as above)
    - Research Hypothesis, Study or Test & Evaluation
    - Metrics
    - Timeline with milestones (most importantly, your “critical path”)
    - Deliverables
    - Period of Performance – Set by research plan/budget outlined in proposal





## PROPOSAL & PROTOCOL PROCESSES - R&D FUNDS





TATRC

## TATRC

TELEMEDICINE &amp; ADVANCED TECHNOLOGY RESEARCH CENTER

[HOME](#)[ABOUT](#)[PORTFOLIOS](#)[LOCATIONS](#)[LIBRARY](#)[FUNDING](#)[INVESTIGATOR TOOLS](#)[INTRANET](#)[CONTACT](#)

The Telemedicine & Advanced Technology Research Center (TATRC) performs medical reconnaissance and special operations to address critical gaps that are underrepresented in DoD medical research programs. TATRC is an office of the headquarters of the US Army Medical Research and Materiel Command (USAMRMC). TATRC fosters research on health informatics, telemedicine/m-Health, medical training systems, and computational biology, and promotes and manages science and engineering in other key portfolios. Through an extensive network of partners, TATRC is focused at both ends of the research spectrum, exploring models of high risk and innovative research, and putting research findings into the hands of warfighters while looking toward wider civilian utility. TATRC augments core medical research programs through special funding and partnership opportunities.

UPDATED  
NOVEMBER 23 2009

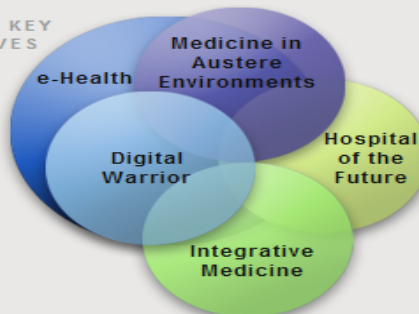
### ANNOUNCEMENTS

**FY 10 Medical Modeling & Simulation Funding Opportunity****FY 09 Vision Research Program Announcement (VRPA)****Now accepting AAMTI FY10 Full Proposals**

### RECENT EVENTS

**ATA Mid-Year meeting Sept 2009**

### TATRC's KEY INITIATIVES

[FUNDING OPPORTUNITIES](#)[INVESTIGATOR TOOLS](#)[PORTFOLIOS](#)[PROJECTS](#)[MEDCOM](#)[ARMY.MIL](#)[AKO](#)[USAMRMC BAA 08-1  
SBIR/STTR](#)[AMEDD Advanced Medical Technology Initiative  
\(AAMTI\)](#)  
[DoD/VA Joint Incentive Fund \(JIF\)](#)

### UPCOMING TATRC EVENTS

[May 16, 2010](#)**ATA 2010: 15th Annual  
International Meeting &  
Exposition**[Read More](#)

Nov 2009						
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TATRC  
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